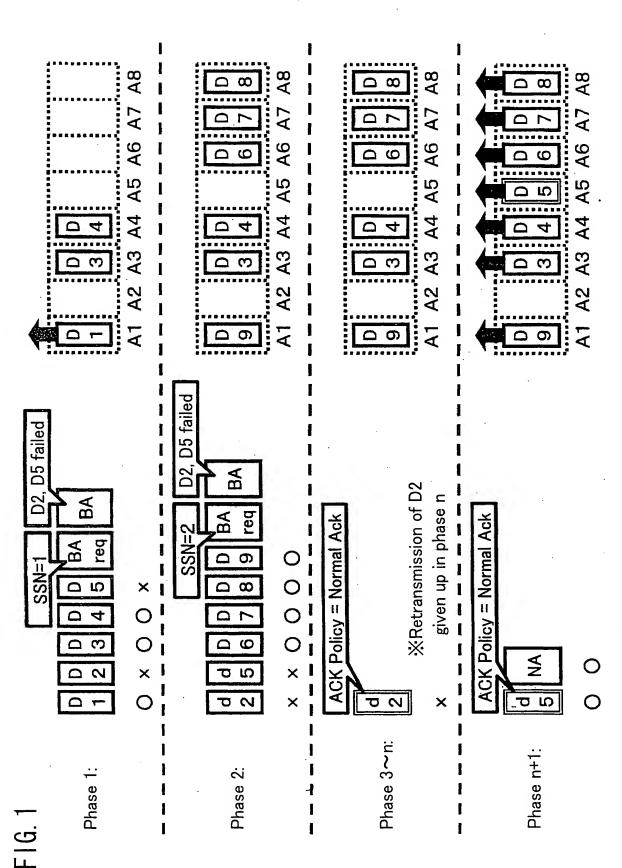App No.: NEW   Docket No.: 1248-0873PUS1
Inventor: Ken NAKASHIMA
Title: TRANSMITTING STATION, RECEIVING STATION, COMMUNICATIONS
      METHOD, COMMUNICATIONS PROGRAM, COMPUTER-READABLE
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FIG. 1
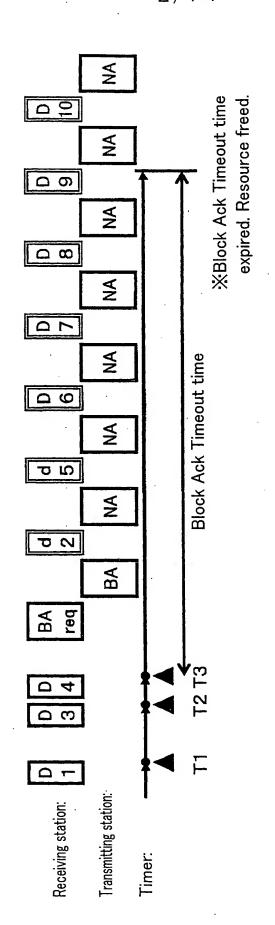
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Title: TRANSMITTING STATION, RECEIVING STATION, COMMUNICATIONS
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    STORAGE MEDIUM CONTAINING THE PROGRAM
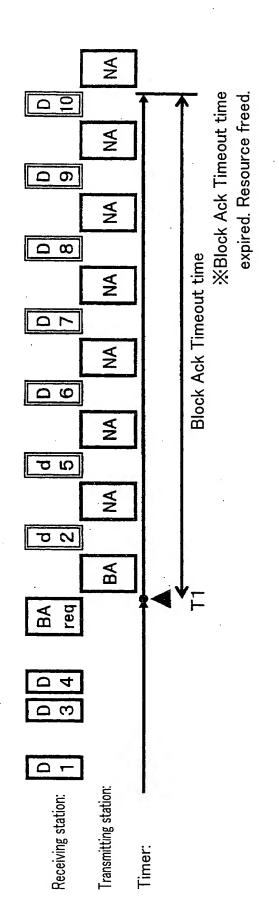NEW SHEET   Sheet 2 of 14

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FIG. 2

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FIG. 3

Receiving station:
| D 1 | D 3 | D 4 | BA req | | D 2 | | d 5 | | D 6 | | D 7 | | D 8 | | D 9 | | D 10 |

Transmitting station:
| | | | | BA | NA | | NA | | NA | | NA | | NA | | NA | NA |

Timer:

T1

Block Ack Timeout time

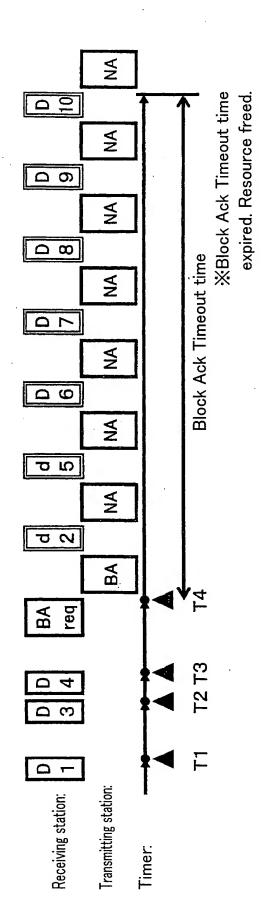※Block Ack Timeout time expired. Resource freed.

▶ : Timer reset

◀ : Timer reset

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FIG. 4

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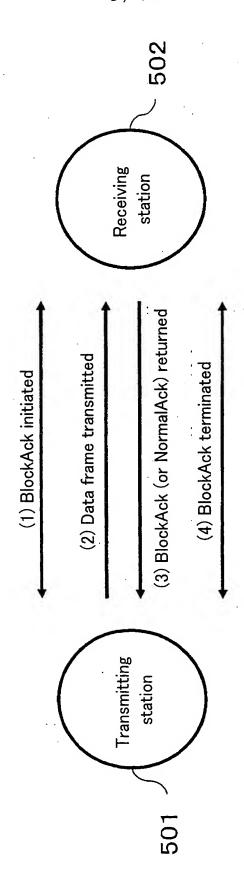   STORAGE MEDIUM CONTAINING THE PROGRAM
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FIG. 5

Receiving station 502

Transmitting station 501

(1) BlockAck initiated
(2) Data frame transmitted
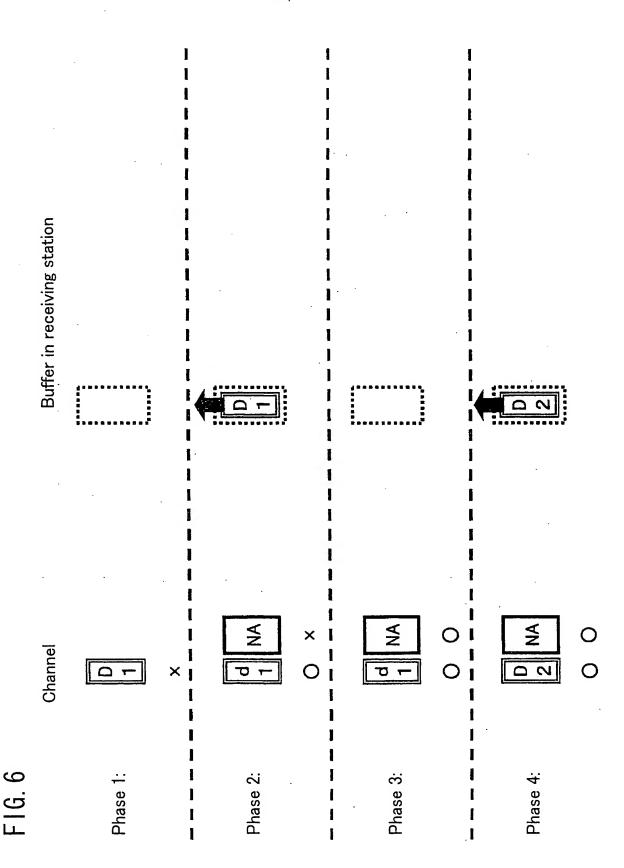(3) BlockAck (or NormalAck) returned
(4) BlockAck terminated

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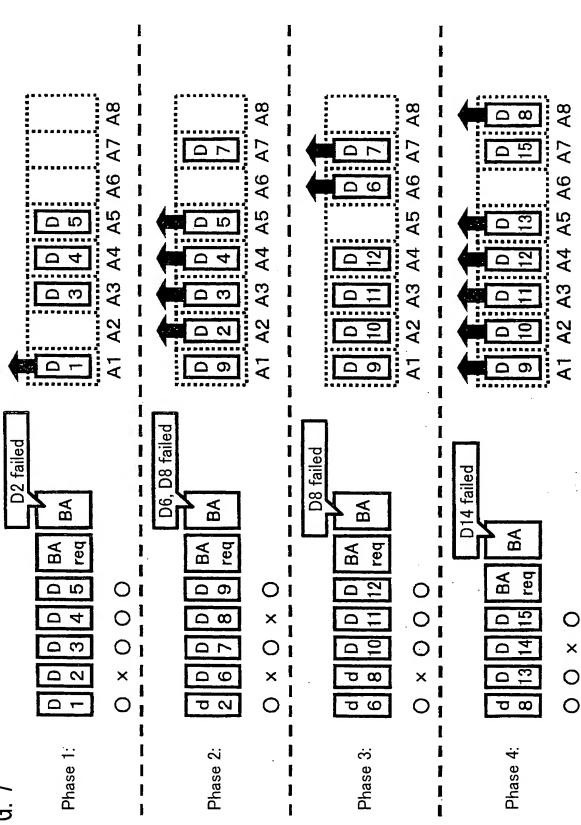
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FIG. 6

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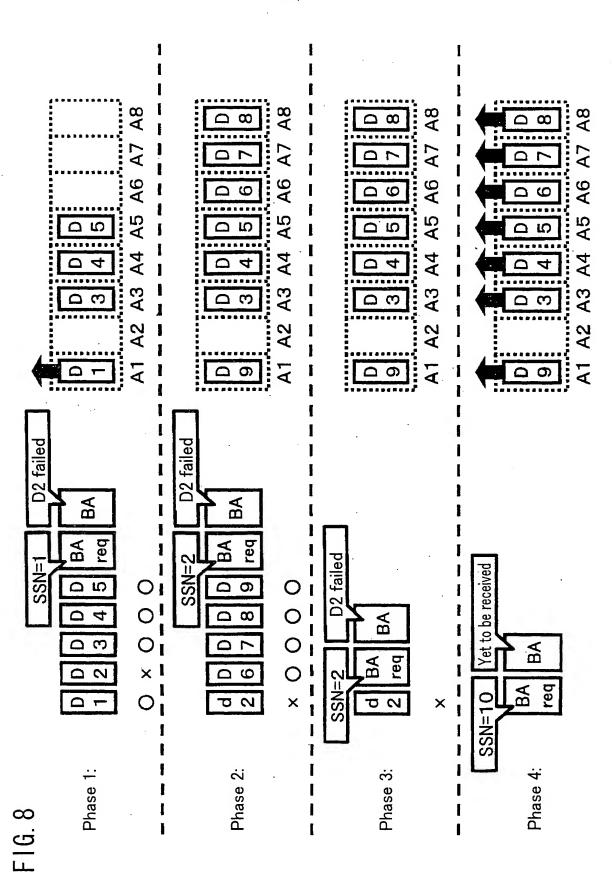NEW SHEET　　　　　　　　　　　　　　　　Sheet 7 of 14

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FIG. 7

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FIG. 8

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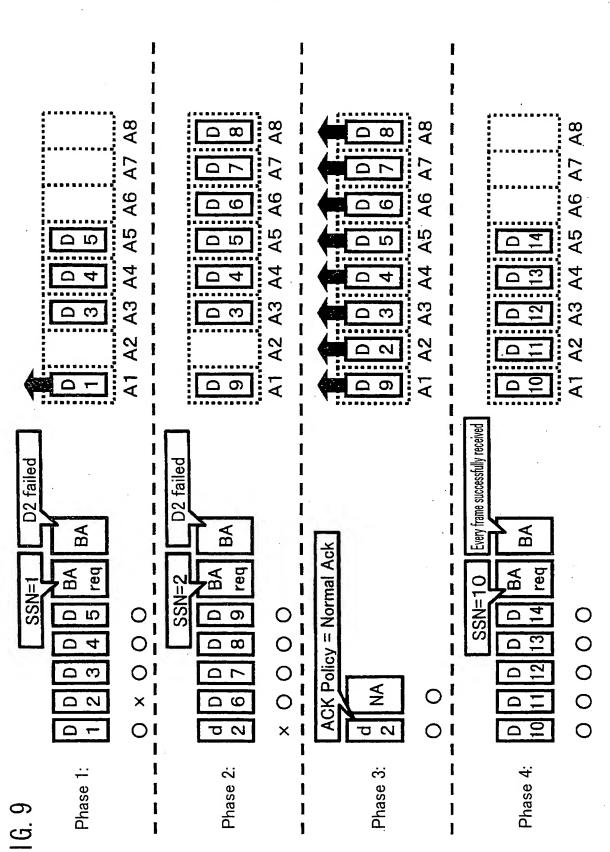Sheet 9 of 14

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FIG. 9

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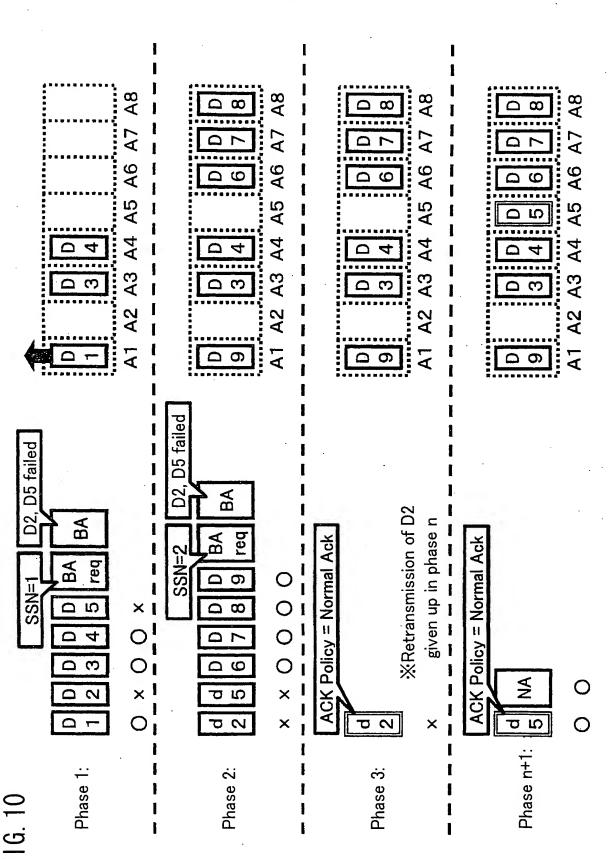FIG. 10

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FIG. 11

Receiving station:

Transmitting station:

Timer:

| D 1 | | D 3 | D 4 | BA req | | d 2 | | d 5 | | D 6 | | D 7 | | D 8 | | D 9 | | D 10 |
| | | | | | BA | NA | NA | NA | NA | NA | NA | NA | NA |

T1   T2 T3   T4   T5   T6   T7   T8   T9   T10   T11

※Use of Block Ack suspended.
Resource cannot be freed.

▶ : Timer reset

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    STORAGE MEDIUM CONTAINING THE PROGRAM.
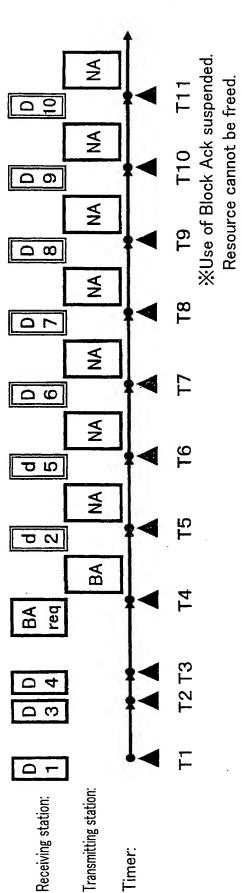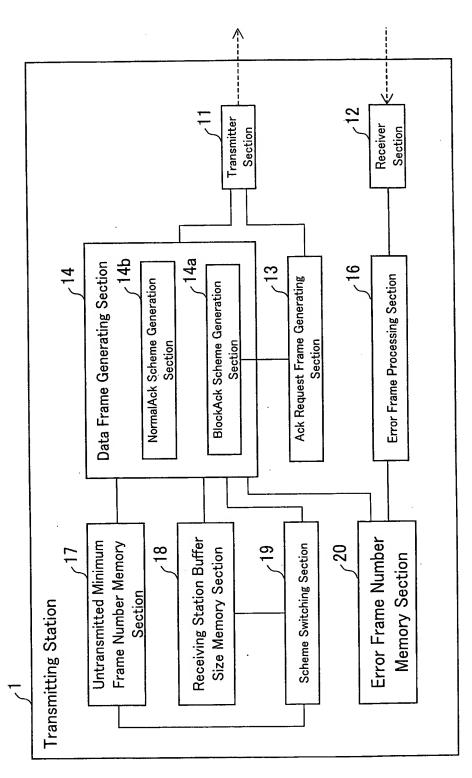NEW SHEET   Sheet 12 of 14

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FIG. 12

Transmitting Station 1

Transmitter Section 11

Receiver Section 12

Data Frame Generating Section 14

NormalAck Scheme Generation Section 14b

BlockAck Scheme Generation Section 14a

Ack Request Frame Generating Section 13

Error Frame Processing Section 16

Untransmitted Minimum Frame Number Memory Section 17

Receiving Station Buffer Size Memory Section 18

Scheme Switching Section 19

Error Frame Number Memory Section 20

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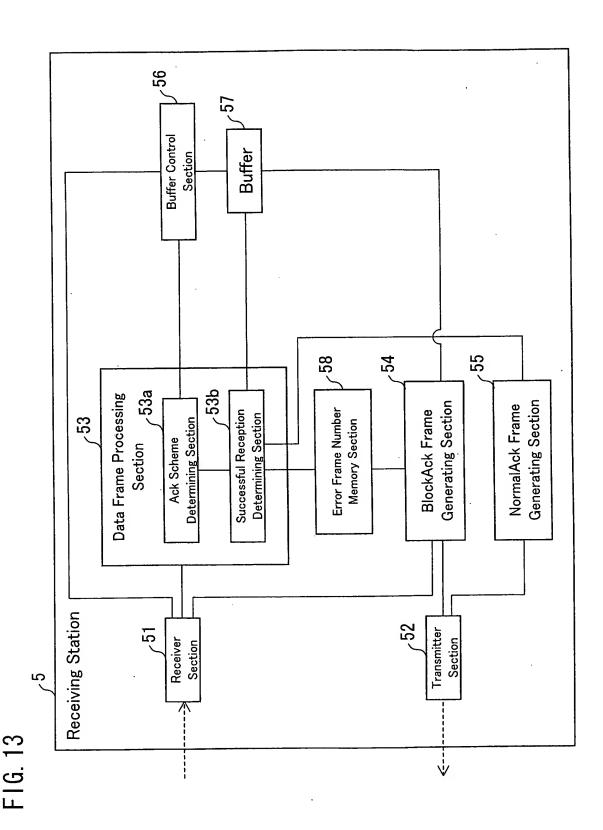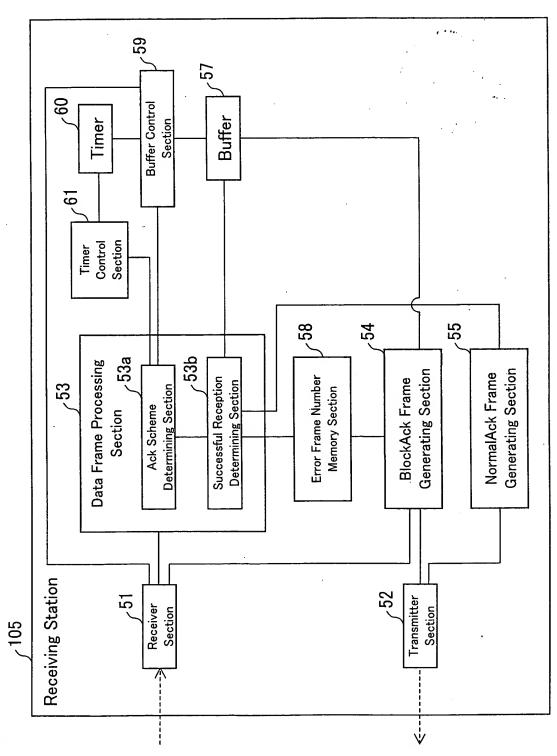NEW SHEET   Sheet 13 of 14

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FIG. 13

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FIG. 14